

## ABSTRACT

[0050] An electronic device and method of fabricating the same. The device comprises a substrate having a display area and at least one receptor site configured to receive a functional block that is to be deposited within the receptor site, embedded below a surface of the substrate and situating outside the display area. A first barrier layer is deposited over the display area and not covering the functional block. A first patterned electrode layer is deposited over the first barrier layer. The first patterned electrode layer makes contact to the functional block. A display medium is deposited over the first patterned electrode layer. A second patterned electrode layer is deposited over the display medium. A second barrier layer is deposited over the second patterned electrode layer.